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(54) Title: DNA IMMUNIZATION AGAINST CHLAMYDIA INFECTION

(57) Abstract

Nucleic acid, including DNA, immunization to generate a protective immune response in a host, including humans, to a major outer membrane protein of a strain of *Chlamydia*, preferably contains a nucleotide sequence encoding a MOMP or a MOMP fragment that generates antibodies that specifically react with MOMP and a promoter sequence operatively coupled to the first nucleotide sequence for expression of the MOMP in the host. The non-replicating vector may be formulated with a pharmaceutically-acceptable carrier for *in vivo* administration to the host.

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INTERNATIONAL SEARCH REPORT

Interna. .al Application No PCT/CA 97/00500

CLASSIFICATION OF SUBJECT MATTER PC 6 C12N15/31 A611 //A61K39/118 C07K14/295 A61K31/70 IPC 6 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 C07K A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 1 - 33EP 0 192 033 A (CHIRON CORPORATION) 27 γ August 1986 cited in the application see abstract and claims see page 7, line 33 - page 9, line 13 see page 11, line 8-33 see page 16, line 20 - page 18, line 22 1-33 DONNELLY ET AL .: "Protective efficacy of Y intramuscular immunization with naked DNA" ANNALS NEW YORK ACADEMY OF SCIENCES, vol. 772, 1995, pages 40-46, XP000576178 cited in the application see Introduction, Potential Clinical Uses and Conclusion Patent family members are listed in annex. lx I Further documents are listed in the continuation of box C. Х T later document published after the international filing date or priority date and not in conflict with the application but Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the "X" document of particular relevance; the claimed invention earlier document but published on or after the international cannot be considered novel or cannot be considered to filing date involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docucitation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled *P* document published prior to the international filing date but "&" document member of the same patent family later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 1 6. 01. 98 12 December 1997 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Muller-Thomalla, K Fax: (+31-70) 340-3016

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Information on patent family members

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